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Workshop on the Summer 2005 Electricity Supply and Demand Outlook

Comments on Demand Response & Interruptible Programs

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Interruptible Programs, also called "Reliability-triggered" programs, are triggered when MWs are needed quickly (day-of or hour-of)

- Interruptible programs have been in existence since the 1980s.
 - . Non-firm or I-6 programs
 - Direct Load Control eg. AC cycling
- In 2000-01, the CPUC authorized several new interruptible programs, but participation in these new programs has been modest.
 - Base Interruptible Program (BIP)
 - Optional Binding Mandatory Curtailment (OBMC)
 - Scheduled Load Reduction Program (SLRP)
 - Rolling Blackout Reduction Program (RBRP) Backup Generators
- Interruptible programs are considered reliable resources given their lengthy track record, and their design: customers must reduce contractually-specified amounts of demand or be hit with substantial penalties.

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The CPUC Has Been Authorizing New Demand Response Programs since 2003¹

- The Energy Action Plan calls for dynamic voluntary price-triggered programs that would reduce peak demand by 1,500 to 2,000 MW by 2007
- For 2005, the IOUs were directed to attain the following MW goals for price-triggered DR programs.

450 MW	628 MW	125 MW
PG&E	SCE	SDG&E

 Programs that are triggered on a day-ahead basis count towards the attainment of these goals, while interruptible programs do not.

[1] In collaboration with the California Energy Commission.

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The CPUC Has Been Authorizing New Demand Response Programs since 2003 (Con't.)

- 'Day-ahead' programs provide participants a one-day notice that demand response is needed.
 - Voluntary Critical Peak Pricing
 - Demand Bidding Program
 - CPA's Demand Reserves Partnership
- Programs that encourage or pay for decreased usage:
 - 20/20 programs
 - IOU Participation in 'Flex Your Power Now'
- In January 2005, the Commission authorized modifications to the day-ahead programs (and some interruptible programs) for MW goal attainment as well as securing additional MWs for this summer.

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The Summer 2005 Staff Report provides Reasonable Estimates of Interruptible and Demand Response MWs currently available

- The purpose of Table 9 is to provide a conservative estimate, "the least amount" of Interruptible and Demand Response MWs we can expect.
- In comparison, the IOU's DR monthly reports provide MW estimates that are significantly higher than Table 9 – show the maximum potential MWs of the programs
 - Example: SCE's January 2005 report has an estimate of 1,312 MWs (in comparison to Table 9's 960 MWs for SCE)
- CEC staff's underlying methodologies for Table 9 are reasonable; minor differences with CPUC staff's estimates (<100 MWs);
 - Example: 72 MWs of SCE's DBP MWs: too optimistic
- New DR programs (CPP, DBP) are difficult to estimate. Limited data and experience available.

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Table 9:	Existing Interruptible and Demand Response
	Programs ²

CPUC Programs	PG&E	SCE	SDG&E	Totai
Interruptible/Curtailable	342	595	2	939
Demand Bidding	39	72	1	112
Critical Peak Pricing	12	6	5	23
Power Authority Demand Response	200	31	5	236
Direct Load Control	45	256	2	303
Backup Generators	-	-	17	17
Total	638	960	32	1,630

²CEC's Summer 2005 Electricity Supply and Demand Outlook, Staff Draft Report

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